

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

**D112-K21 hebro®sol TL**

Version: 4.3

Revision Date: 14.04.2025

Print Date: 15.04.2025

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name : D112-K21 hebro®sol TL

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- : Cleaner for professional application in industry and trade  
stance/Mixture

### 1.3 Details of the supplier of the safety data sheet

Company : hebro chemie- ZN der Rockwood Specialties Group  
GmbH  
Rostocker Str. 40  
41199 Mönchengladbach  
Contact person : Zentrale hebro chemie  
Telephone : +49 (0) 2166 6009-0  
Telefax : +49 (0) 2166 6009-99  
Contact person product safety : Abteilung Produktsicherheit  
Telephone : +49(0)2166 6009-311  
E-mail address : msds.de@hebro-chemie.de

### 1.4 Emergency telephone number

: Giftinformationszentrum Erfurt:  
+49 (0) 361 730 730

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1	H290: May be corrosive to metals.
Skin corrosion, Category 1	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters air-ways.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H290 May be corrosive to metals.  
H304 May be fatal if swallowed and enters airways.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

:

**Prevention:**

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

**Hazardous components which must be listed on the label:**

Hydrocarbons, C11 - C12, isoalkanes, <2 % aromatics  
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., potassium salts  
Disodium metasilicate  
Orange, sweet, ext.

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

Toxicological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f),

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

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Chemical nature : Preparation based on an aqueous solution ionogenic and non-ionogenic tensides

### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Hydrocarbons, C11 - C12, isoalkanes, <2 % aromatics	Not Assigned 918-167-1 01-2119472146-39	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 4; H413 EUH066	>= 2.5 - < 10
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., potassium salts	84961-78-4	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 3 - < 10
Disodium metasilicate	6834-92-0 229-912-9 01-2119449811-37	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)	>= 3 - < 5
Hydrocarbons, C11 - C14, isoalkanes, cyclics, < 2 % aromatics	Not Assigned 01-2119480162-45	Asp. Tox. 1; H304	>= 1 - < 2.5
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Not Assigned 920-901-0 01-2119456810-40	Asp. Tox. 1; H304 EUH066	>= 1 - < 2.5
Orange, sweet, ext.	8028-48-6 232-433-8 01-2119493353-35	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 1 - < 2.5
Isotridecanol, ethoxylated (>=2,5 - <=7 EO)	69011-36-5 500-241-6	Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 1 - < 2.5
2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether	112-34-5 203-961-6 603-096-00-8 01-2119475104-44	Eye Irrit. 2; H319	>= 1 - < 2.5

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : Provide fresh air.  
Keep patient warm and at rest.

In case of skin contact : After contact with skin, wash immediately with plenty of soap

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and water.

Take off all contaminated clothing immediately.

In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If swallowed : Do NOT induce vomiting.  
Keep at rest.  
Call a physician immediately.

## 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : No information available.

May be fatal if swallowed and enters airways.

May cause an allergic skin reaction.

Causes serious eye damage.

Causes severe burns.

## 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Water spray jet

Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : No information available.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Specific extinguishing methods : Use water spray to cool unopened containers.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Remove all sources of ignition.  
Ensure adequate ventilation.

### 6.2 Environmental precautions

Environmental precautions : Inform the relevant authorities if it enters sewers, aquatic environment or soil.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8., For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Keep away from open flames, hot surfaces and sources of ignition.  
Take precautionary measures against static discharges.

Advice on protection against fire and explosion : Vapours are heavier than air and may spread along floors.  
Vapours may form explosive mixtures with air.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep away from open flames, hot surfaces and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Observe label precautions.

Further information on storage conditions : Protect from heat and sunlight.

Advice on common storage : Incompatible with oxidizing agents.

### 7.3 Specific end use(s)

Specific use(s) : Cleaner for professional application in industry and trade

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational Exposure Limits**

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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether	112-34-5	TWA	10 ppm 67.5 mg/m3	GB EH40
		STEL	15 ppm 101.2 mg/m3	GB EH40

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	Value
Disodium metasilicate	Workers	Inhalation	Long-term systemic effects	6.22 mg/m3
2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether	Workers	Inhalation	Long-term systemic effects	67.5 mg/m3
	Workers	Inhalation	Long-term local effects	67.5 mg/m3
	Workers	Inhalation	Acute local effects	101.2 mg/m3
	Workers	Skin contact	Long-term systemic effects	20 mg/kg bw/day
Orange, sweet, ext.	Workers	Inhalation	Long-term systemic effects	31.1 mg/m3
	Workers	Skin contact	Long-term systemic effects	8.89 mg/kg bw/day
	Workers	Skin contact	Acute local effects	185.8 µg/cm2

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether	Fresh water	1 mg/l
	Marine water	0.4 mg/l
	Estuary sediment	4 mg/l
Orange, sweet, ext.	Fresh water	0.005 mg/l
	Marine water	0.0005 mg/l
	Intermittent use/release	0.0058 mg/l
	Sewage treatment plant	2.1 mg/l
	Fresh water sediment	1.3 mg/kg
	Marine sediment	0.13 mg/kg
	Soil	0.261 mg/kg
	Oral	13.3 mg/kg

## 8.2 Exposure controls

### Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

### Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : Protective gloves complying with EN 374.

Break through time : > 60 min

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Protective index : Class 3

Material : Nitrile rubber  
Glove thickness : 0.4 mm

Material : butyl-rubber  
Glove thickness : 0.5 mm

Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed.

Skin and body protection : Chemical resistant protective clothing according to DIN EN 13034 (Type 6)  
Work uniform or laboratory coat.

Respiratory protection : Use respirator when performing operations involving potential exposure to vapour of the product.

Filter type : Organic vapour type (A)

Protective measures : When using do not eat, drink or smoke.  
Wash hands before breaks and at the end of workday.  
Follow the skin protection plan.

### Environmental exposure controls

Soil : Avoid subsoil penetration.  
Water : Do not flush into surface water or sanitary sewer system.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : yellow

Odour : aromatic

Melting point/freezing point : not determined

Boiling point/boiling range :

Upper explosion limit / Upper flammability limit : Upper flammability limit  
7.0 %(V)

Lower explosion limit / Lower : Lower flammability limit

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flammability limit	0.6 %(V)
Flash point	: 67 °C
Auto-ignition temperature	: 200 °C
pH	: 13 (20 °C) (undiluted)
Viscosity Viscosity, kinematic	: 10.7 mm <sup>2</sup> /s (40 °C)
Solubility(ies) Water solubility	: 1,000 g/l completely soluble
Partition coefficient: n- octanol/water	: Not applicable
Vapour pressure	: not determined
Density	: 1.01 g/cm <sup>3</sup> (20 °C) Method: DIN 51757
Relative vapour density	: not determined

### 9.2 Other information

Explosives	: Vapours may form explosive mixture with air.
Metal corrosion rate	: Corrosive to metals

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	: No dangerous reaction known under conditions of normal use.
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### 10.4 Conditions to avoid



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Conditions to avoid : Product is stable under appropriate usage.

## 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

## 10.6 Hazardous decomposition products

Carbon monoxid, carbon dioxid.

Smoke

Nitrogen oxides (NO<sub>x</sub>)

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Not classified due to lack of data.

#### Components:

##### Orange, sweet, ext.:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

##### Isotridecanol, ethoxylated (>=2,5 - <=7 EO):

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

##### 2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether:

Acute oral toxicity : LD50 (Rat): 3,384 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 2,700 mg/kg

#### Skin corrosion/irritation

Causes severe burns.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

##### Skin sensitisation

May cause an allergic skin reaction.

##### Respiratory sensitisation

Not classified due to lack of data.

##### Germ cell mutagenicity

Not classified due to lack of data.

#### Components:

##### Orange, sweet, ext.:

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Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

## **Carcinogenicity**

Based on available data, the classification criteria are not met.

### **Product:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

## **Reproductive toxicity**

Not classified due to lack of data.

### **STOT - single exposure**

Not classified due to lack of data.

### **STOT - repeated exposure**

Not classified due to lack of data.

## **Repeated dose toxicity**

### **Components:**

#### **Isotridecanol, ethoxylated ( $\geq 2,5$ - $\leq 7$ EO):**

Species	: Rat
NOAEL	: 50 mg/kg
Application Route	: Oral
Number of exposures	: /day
Target Organs	: Heart, Liver, Kidney

## **Aspiration toxicity**

May be fatal if swallowed and enters airways.

### **Product:**

May be fatal if swallowed and enters airways.

## **11.2 Information on other hazards**

### **Endocrine disrupting properties**

#### **Product:**

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f),

### **Further information**

#### **Product:**

Remarks : According to many years of experience, there are no known harmful effects when handled properly.  
Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several components.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **Orange, sweet, ext.:**

- Toxicity to fish : LC50 (Pimephales promelas (Fathead minnow)): 0.7 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.67 mg/l  
aquatic invertebrates Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic : ErC50 (Desmodesmus subspicatus): 150 mg/l  
plants Exposure time: 72 h  
Method: OECD Test Guideline 201

##### **Isotridecanol, ethoxylated ( $\geq 2,5$ - $\leq 7$ EO):**

- Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 1 - 10 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203
- NOEC : 1.73 mg/l
- Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
aquatic invertebrates Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202
- NOEC (Daphnia magna (Water flea)): 1.36 mg/l  
Exposure time: 21 d
- Toxicity to algae/aquatic : EC50 (Desmodesmus subspicatus): > 1 - 10 mg/l  
plants Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201
- EC10 : 0.6 mg/l  
Exposure time: 72 h  
Test Type: static test
- Toxicity to microorganisms : EC50 (activated sludge): 140 mg/l  
Test Type: Respiration inhibition

##### **2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether:**

- Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 2,750 mg/l  
Exposure time: 48 h  
Method: DIN 38412
- LC50 (Lepomis macrochirus (Bluegill sunfish)): 1,300 mg/l  
Exposure time: 96 h

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Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 2,850 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l  
plants Exposure time: 96 h  
Method: OECD Test Guideline 201

## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: No data available

### Components:

#### **Isotridecanol, ethoxylated ( $\geq 2,5$ - $\leq 7$ EO):**

Biodegradability : Test Type: aerobic  
Biodegradation: > 60 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
Remarks: Readily biodegradable.  
This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.  
Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: No data available

### Components:

#### **Isotridecanol, ethoxylated ( $\geq 2,5$ - $\leq 7$ EO):**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

## 12.4 Mobility in soil

### Product:

Mobility : Remarks: No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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## 12.6 Endocrine disrupting properties

### Product:

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

## 12.7 Other adverse effects

### Product:

Additional ecological information : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Contaminated packaging : Dispose of in accordance with local regulations. Since emptied containers retain product residues (vapour and/or liquid) follow all MSDS/label warnings after container is emptied.

Waste Code : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR : UN 1760

RID : UN 1760

IMDG : UN 1760

IATA : UN 1760

### 14.2 UN proper shipping name

ADR : CORROSIVE LIQUID, N.O.S.  
(Sodium Metasilicate)

RID : CORROSIVE LIQUID, N.O.S.  
(Sodium Metasilicate)

IMDG : CORROSIVE LIQUID, N.O.S.  
(Sodium Metasilicate)

IATA : Corrosive liquid, n.o.s.  
(Sodium Metasilicate)

### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADR	: 8	
RID	: 8	

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**IMDG** : 8

**IATA** : 8

## 14.4 Packing group

### ADR

Packing group : III  
Classification Code : C9  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : (E)

### RID

Packing group : III  
Classification Code : C9  
Hazard Identification Number : 80  
Labels : 8

### IMDG

Packing group : III  
Labels : 8  
EmS Code : F-A, S-B  
Remarks : Alkalis, Clear of living quarters.

### IATA (Cargo)

Packing instruction (cargo aircraft) : 856  
Packing instruction (LQ) : Y841  
Packing group : III  
Labels : Corrosives

### IATA\_P (Passenger)

Packing instruction (passenger aircraft) : 852  
Packing instruction (LQ) : Y841  
Packing group : III  
Labels : Corrosives

## 14.5 Environmental hazards

### ADR

Environmentally hazardous : no

### RID

Environmentally hazardous : no

### IMDG

Marine pollutant : no

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Conditions of restriction for the following entries should be considered: Number on list 3
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	:	Not applicable
according to Detergents Regulation EC 648/2004	:	5 % or over but less than 15 %: Aliphatic hydrocarbons less than 5 %: Non-ionic surfactants
Regulation (EC) No. 648/2004, as amended	:	5 % or over but less than 15 %: Aliphatic hydrocarbons less than 5 %: Non-ionic surfactants

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

## SECTION 16: Other information

### Full text of H-Statements

H226	:	Flammable liquid and vapour.
H290	:	May be corrosive to metals.
H304	:	May be fatal if swallowed and enters airways.
H314	:	Causes severe skin burns and eye damage.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H335	:	May cause respiratory irritation.
H411	:	Toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.
H413	:	May cause long lasting harmful effects to aquatic life.
EUH066	:	Repeated exposure may cause skin dryness or cracking.

### Full text of other abbreviations

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Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Met. Corr.	: Corrosive to metals
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT SE	: Specific target organ toxicity - single exposure
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	: Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

Other information : The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## D112-K21 hebro®sol TL

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The product is classified and labelled in accordance with EC directives or respective national laws.

Regional or national implementations of GHS may not implement all hazard classes and categories.

Guideline on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) :  
no component is listed

No PFAS are consciously added to the product concerning the restriction proposal for inclusion to REACH (Annex XVII).

### Classification of the mixture:

Met. Corr. 1	H290
Skin Corr. 1	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Asp. Tox. 1	H304
Aquatic Chronic 3	H412

### Classification procedure:

Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
Calculation method
Based on product data or assessment
Calculation method

GB / EN